FIG.1

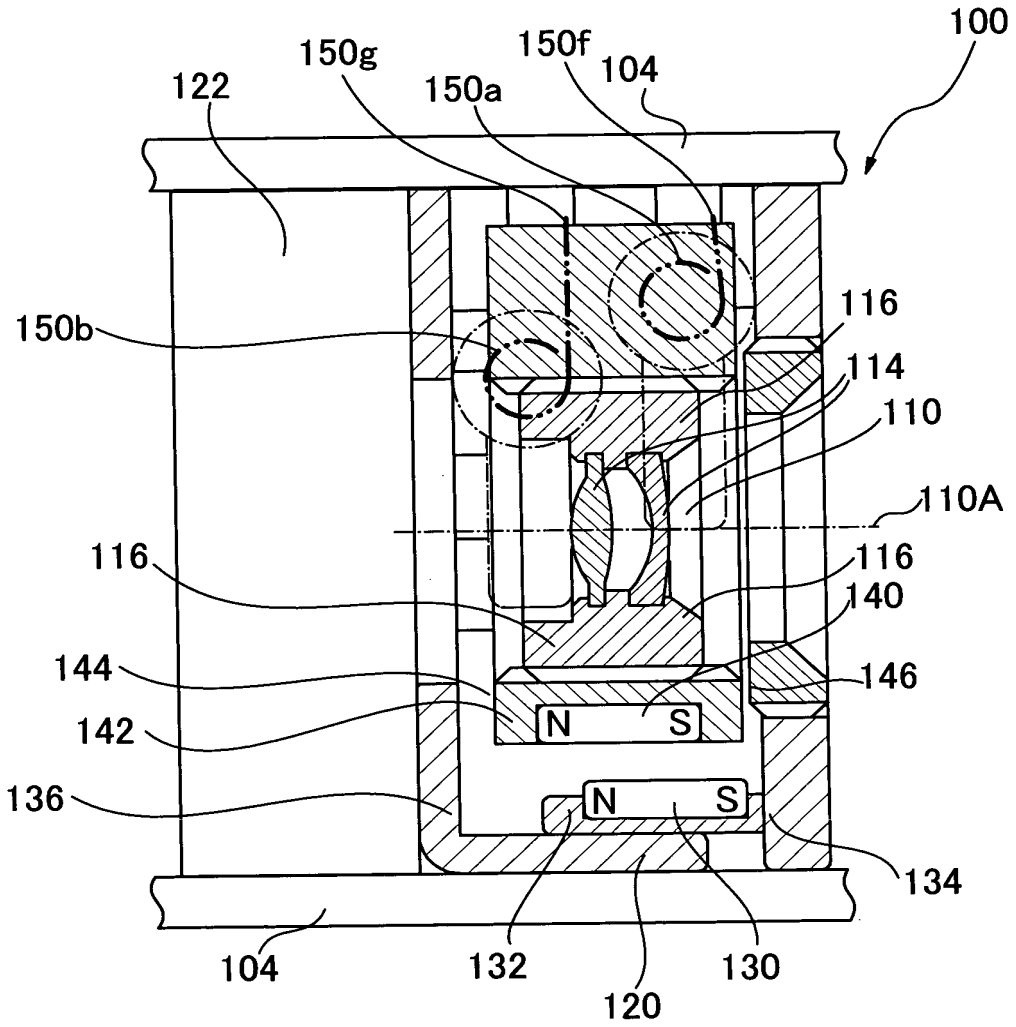
100
150g
150f
104
122
150a
150b
116
114
110
110A
116
116
140
144
146
142
N
S
136
N
S
134
104
132
120
130

FIG.2

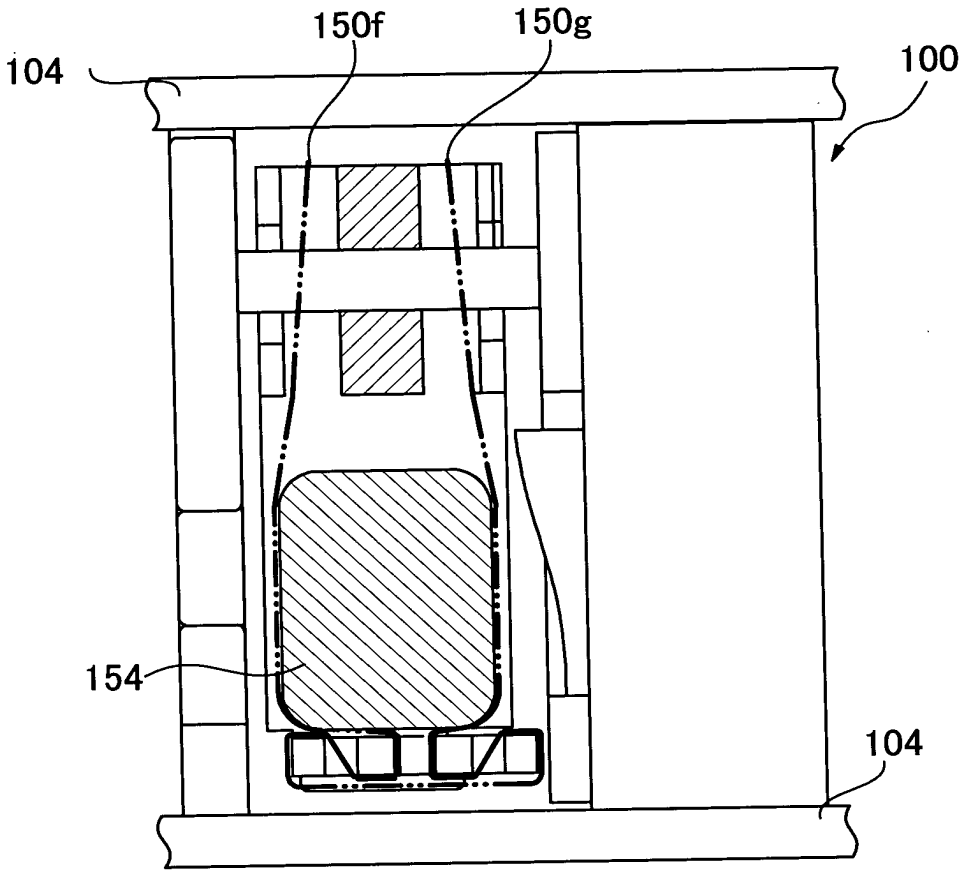

FIG.3

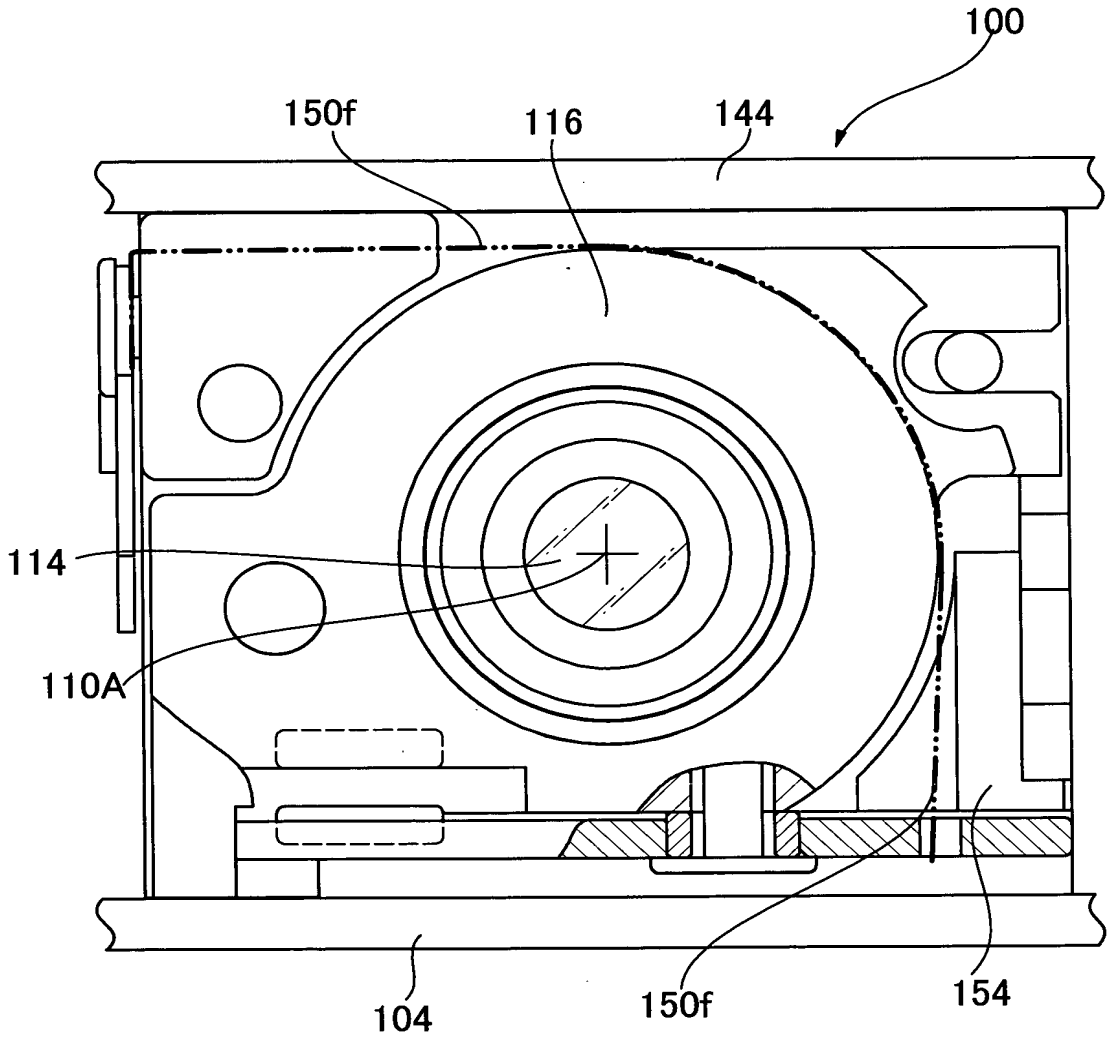

FIG.4

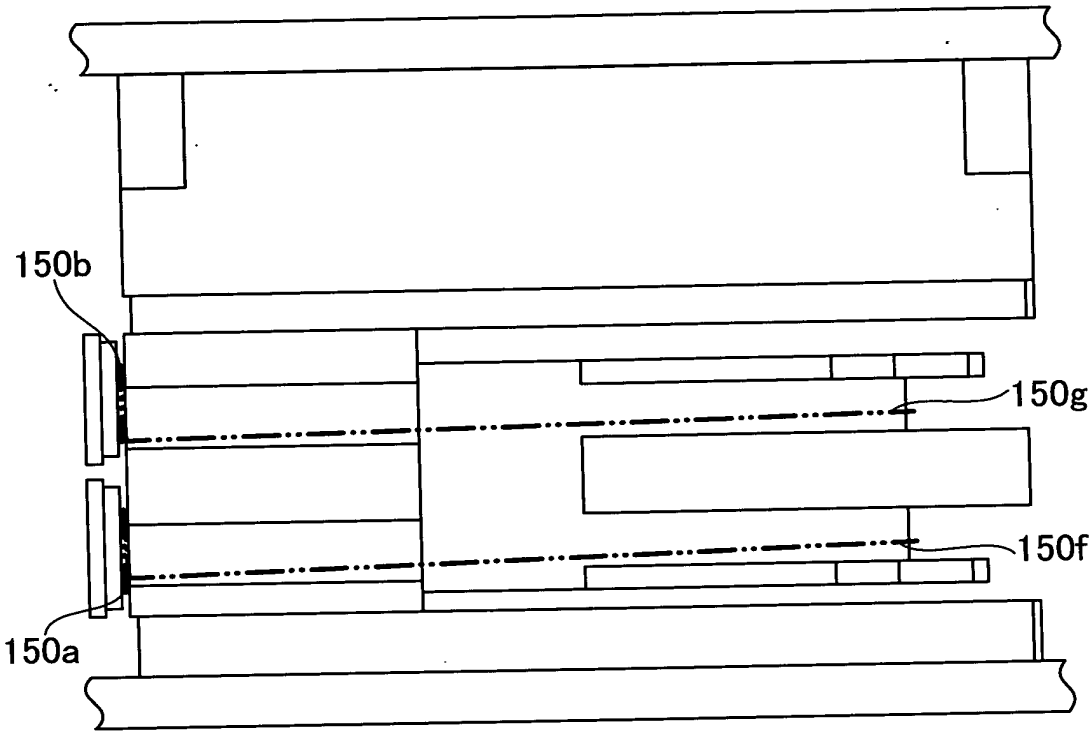
150b
150g
150f
150a

FIG.5

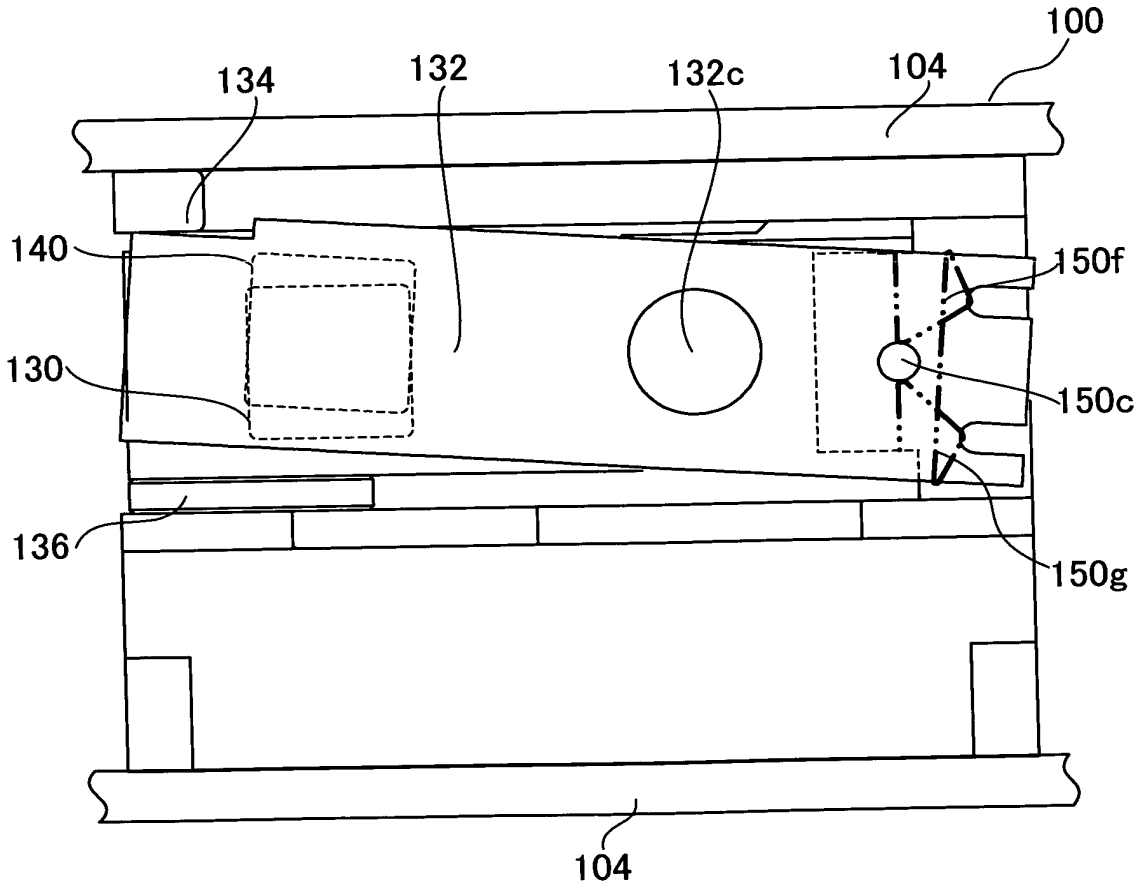
100
134
132
132c
104
140
150f
130
150c
136
150g
104

FIG.6

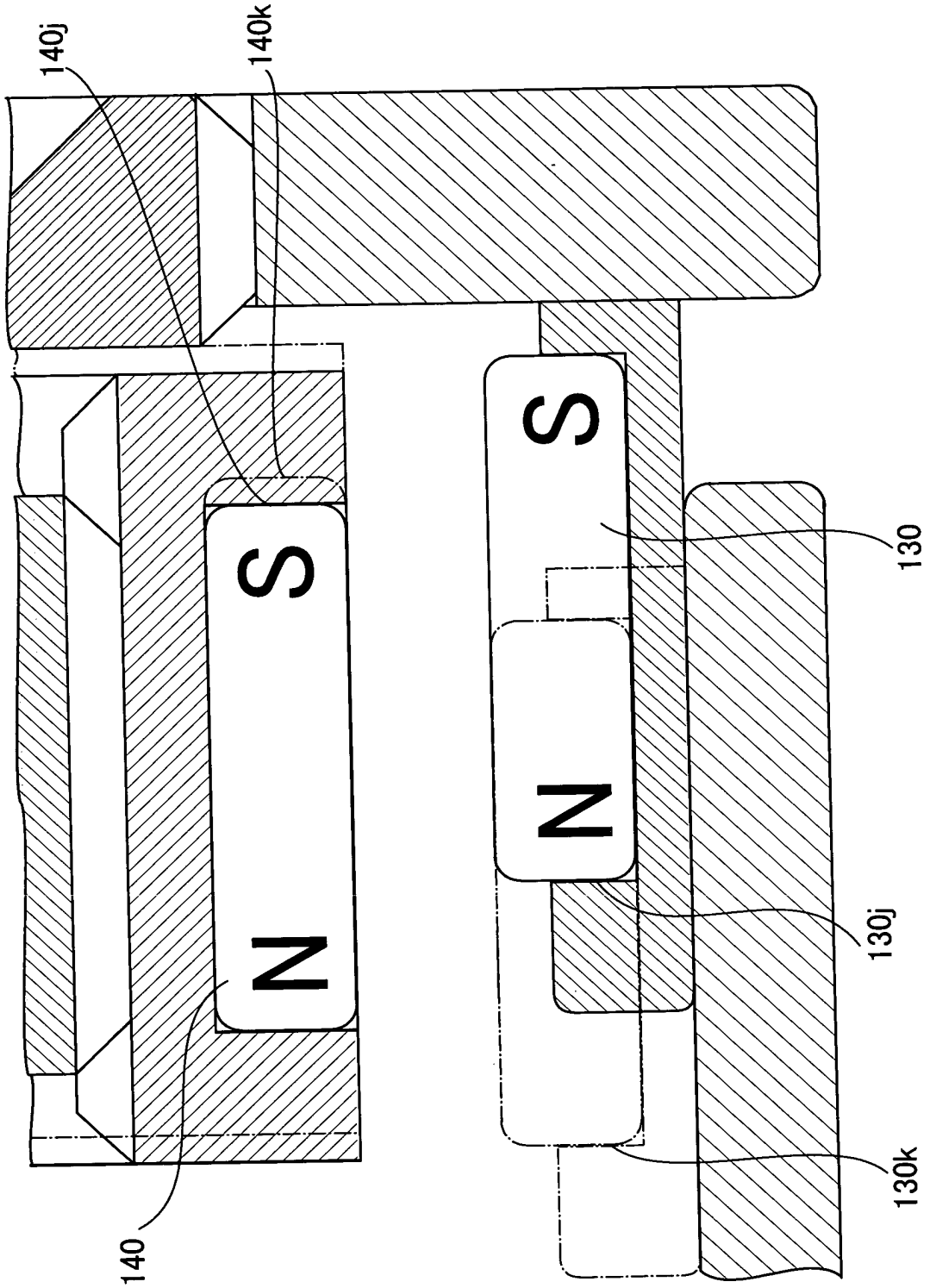

FIG.7

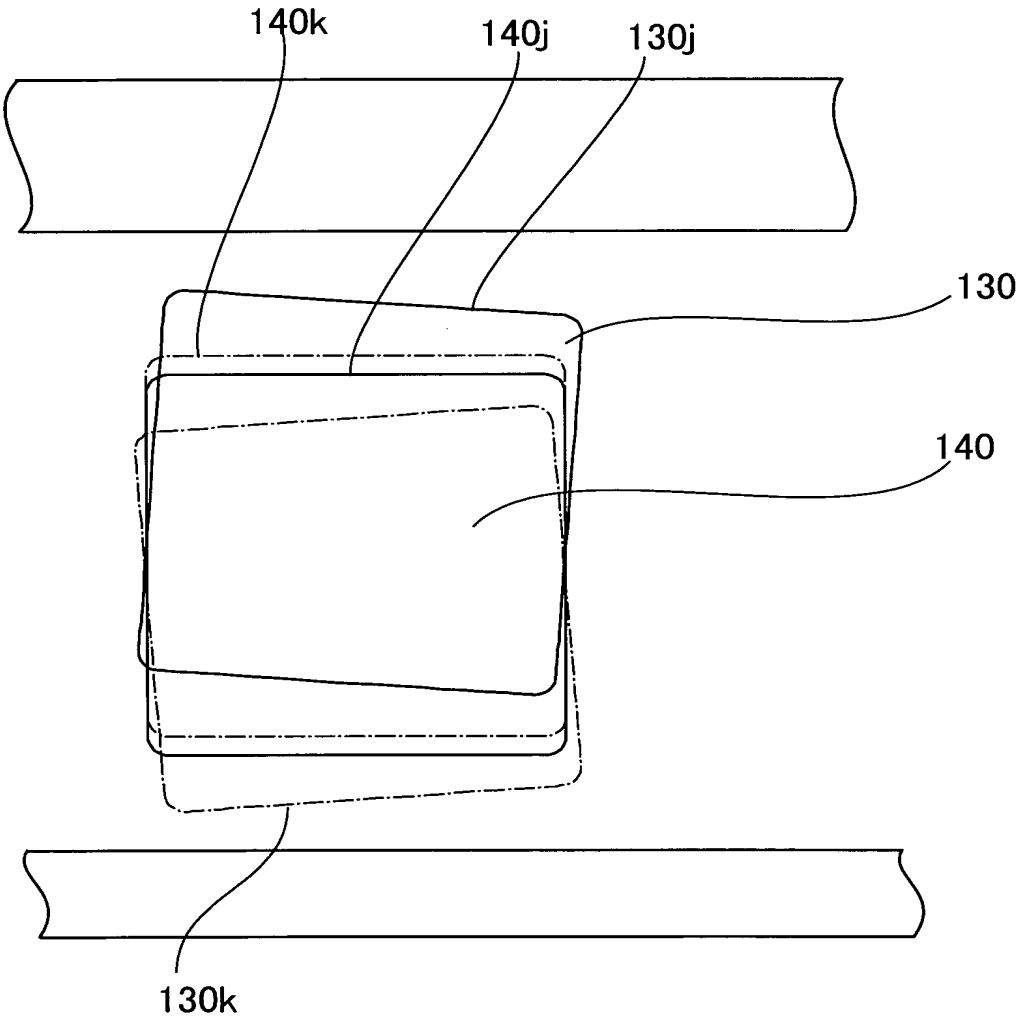

FIG.8

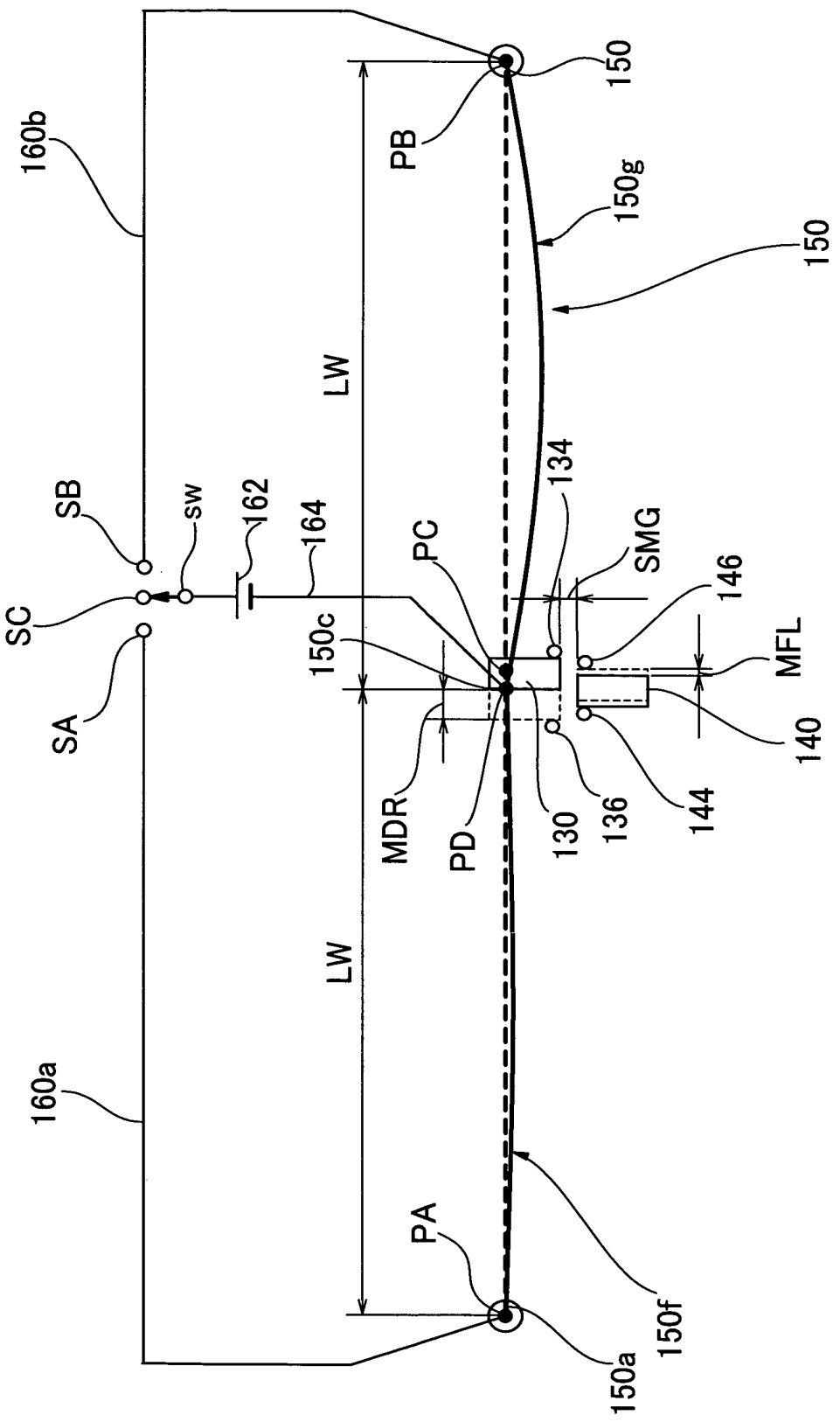
160b
160a
150
150g
150f
150a
PB
PA
PC
PD
SB
SC
SA
SW
162
164
LW
LW
134
SMG
146
MFL
140
150c
MDR
130
136
144

FIG.9

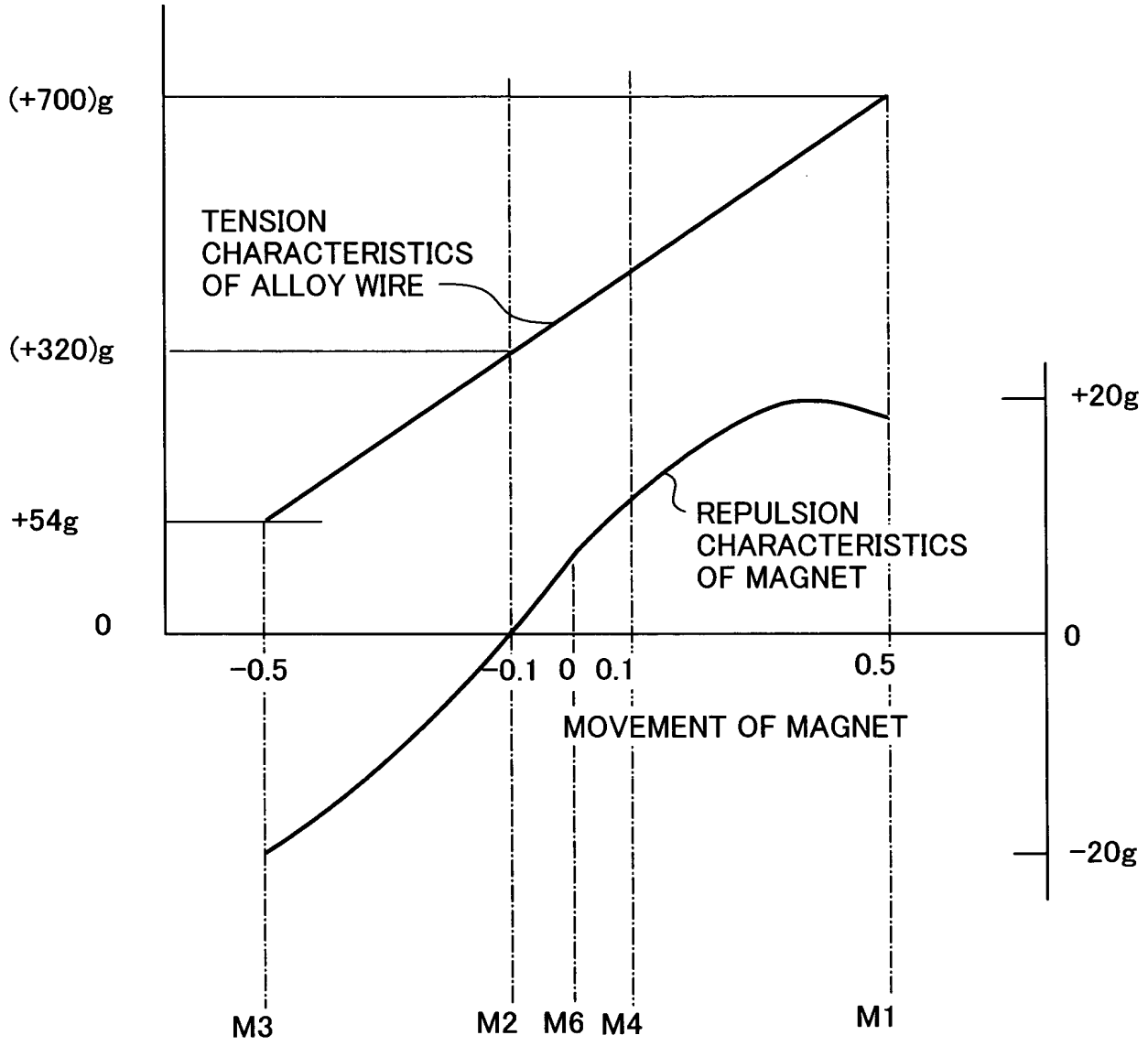
(+700)g
(+320)g
+54g
0
TENSION
CHARACTERISTICS
OF ALLOY WIRE
REPULSION
CHARACTERISTICS
OF MAGNET
+20g
0
-20g
-0.5
-0.1
0
0.1
0.5
MOVEMENT OF MAGNET
M3
M2
M6
M4
M1

FIG.10

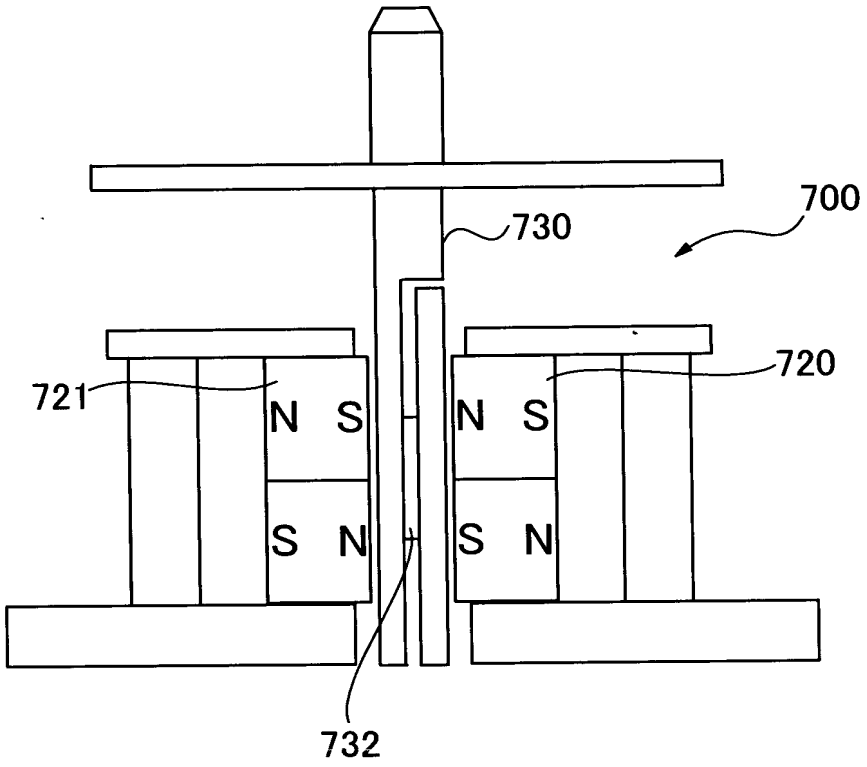

FIG.11

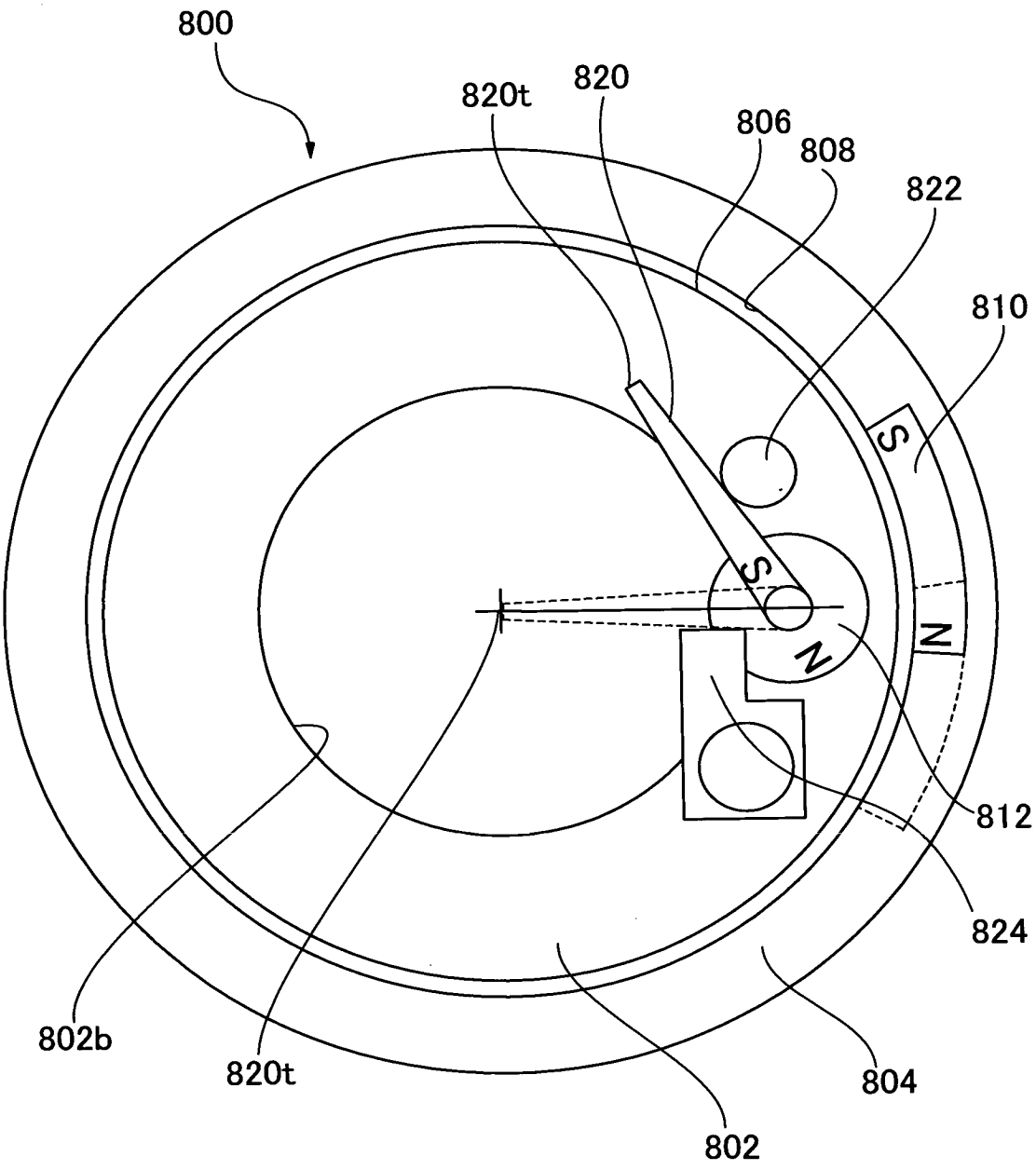
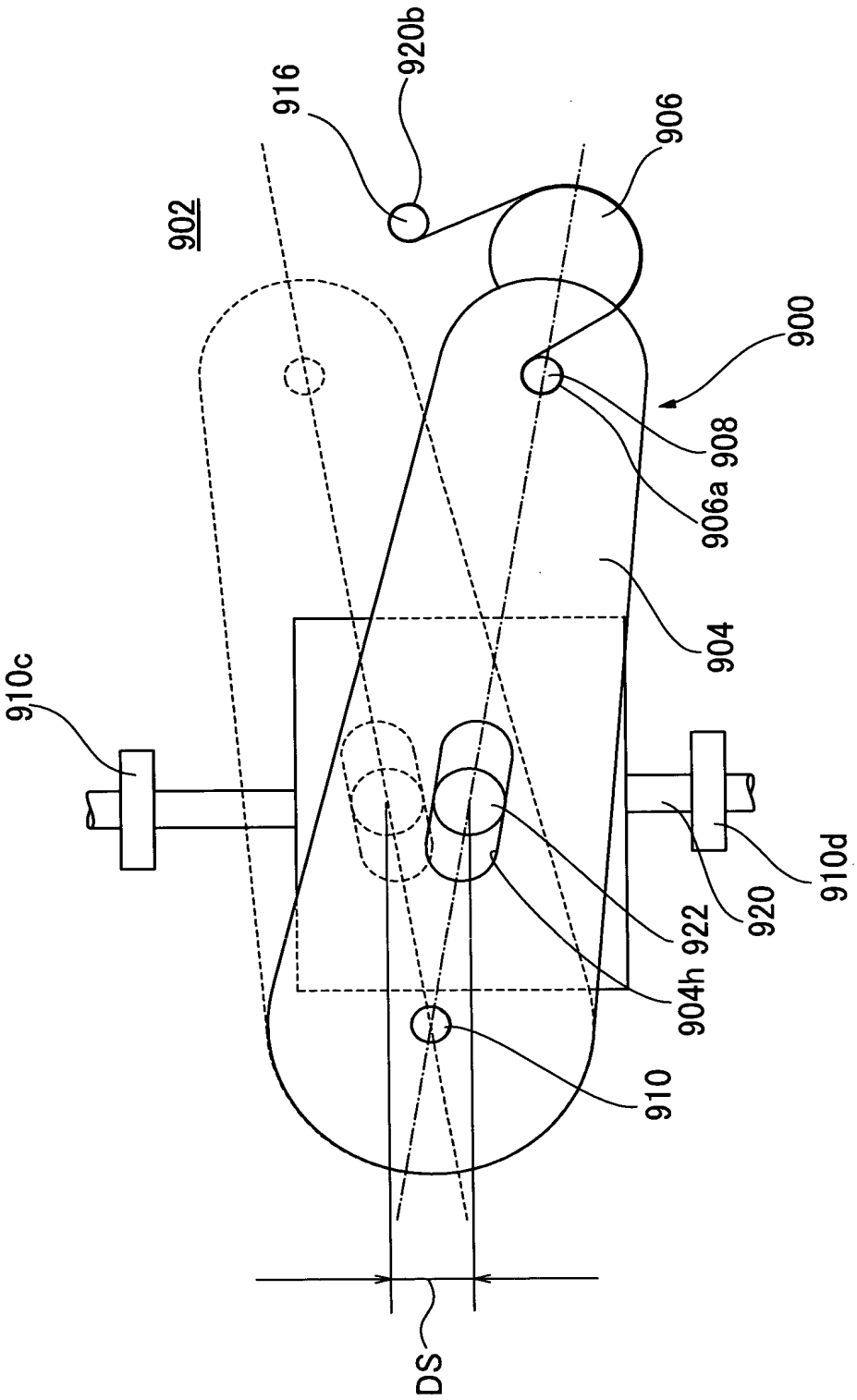
FIG.12